

ABSTRACT

A solid-state imaging device comprises: a plurality of pixels including a light-sensitive portion (2) for photoelectrically converting incident light, a transfer gate (10) for transferring a charge stored in the light-sensitive portion, a resettable detection capacitor (18) for storing the charge transferred from the transfer gate, and a selection switch (26) for outputting a charge of the detection capacitor according to a selection signal RW_n ; a charge amplifier (41) for converting the detection capacitor charge, which is outputted from the pixels, to a voltage; and a correlated double sampling circuit (86) for obtaining a voltage difference between a reset level and a detected level converted by the charge amplifier. According to the above device, a thermal noise is eliminated due to the correlated double sampling circuit. Further, a fixed pattern noise is not generated due to the pixel circuit structure.